ARGUS LCM

SCHILLER ARGUS LCM

Vital Data Monitoring: High Quality for small budgets!

The new SCHILLER ARGUS LCM Monitor is designed to provide full vital data monitoring for mobile and stationary use, suitable for adults and neonates.

Features/Parameters:
- ECG with up to 12 simultaneous leads
- 24-hour trend memory for all parameters
- Respiration with impedance method
- Temperature measurement (rectal, skin or ear)
- Non-invasive Blood Pressure (NIBP) with disposable and reusable cuffs in different sizes
- Masimo™ Pulse-Oximetry
- Freely selectable alarm supervision of all vital signs (except temp.)

Benefits:
- Excellent price/performance ratio
- Large high-resolution colour LCD: diagonal 27 cm/10.4 in.
- Light-weight, compact design
- Extremely easy to use, thanks to its direct function keys
- Convenient carrying handle
- Facility to use all standard emergency vehicle dc power supplies (in addition to the usual mains supply) without adapter

Optional:
- Capnography
- Integrated thermal printer
- Additional integrated battery for independent use of more than two hours
**Technical Data SCHILLER ARGUS LCM:**

**System:**
- Dimensions: 290 x 275 x 180 mm (h x w x d);
- 11.4 x 10.8 x 7.1 in. (h x w x d); approx. 4.6 kg / 9.2 lbs

**Power supply requirements:**
- 90 to 250 Vac, 50/60 Hz; approx. 1 hour mains independent operation
- Option: Additional battery for 2 hours mains independent operation

**Colour LCD:**
- Backlit liquid crystal display for graphic and alphanumeric representation
- Writing speed: 12.5 / 25 / 50 mm/s (respiration: 6.25 mm/s)
- Display: 5, 4, 3 or 2 channels
- Resolution: SVGA, 800 x 600 dots
- Diagonal: 27 cm / 10.4 in.

**Power consumption:** 28 VA

**Printing process:**
- High-resolution thermal printhead, 8 dots/mm / 200 dots/in. (amplitude-axis), 40 dots/mm / 1000 dots/in. (time-axis), @ 25 mm/s

**Chart paper:**
- Thermoreactive, Z-folded, 72 mm / 2.8 in. width, approx. 20m / 65.6 ft. length

**Paper speed:**
- 5 / 12.5 / 25 mm/s

**Frequency range of digital recorder:**
- 0.05 Hz – 150 Hz (IEC/AHA)

**Patient leakage current:** < 50 µA

**Patient input:** Fully floating and isolated, defibrillation protected, > 5kV

**Safety standard:**
- CF according to EN 60601-1
- Protection class: I according to IEC 60601-1
- Conformity: 93/42/EEC, class IIb, CE

**Environmental conditions:**
- Temperature operating: 10º to 40º C / 50º to 104º F
- Temperature storage: -10º to 50º C / 14º to 122º F
- Relative humidity: 25% to 95% (not condensing)

**Standard interfaces:**
- RS-232 serial interface, Nurse call

**ECG:**
- **Amplifier:** Fully isolated, defibrillation protected, > 5kV
- **Leads:** Up to 12 simultaneous standard leads
- **HR display:** 20 – 250 bpm
- **Automatic lead program:** Simultaneous display of up to 3 leads per page
- **Sensitivity:** 5 / 10 / 20 / 40 mm/mV, manually selectable
- **Recording tracks:** 2 channels, positioned at optimal width on 72 mm / 2.8 in., automatic baseline adjustment
- **Patient cable interfaces:** 3, 5 or 10 lead patient cable
- **ECG amplifier:**
  - Simultaneous, synchronous recording of up to 9 active electrode signals (= 12 leads)
  - Sampling frequency: 1000 Hz
- **Pacemaker detection:** ± 2mV / ± 0.1 ms
- **Line frequency filter:** Distortion-free suppression of superimposed 50 or 60 Hz sinusoidal interferences by means of adaptive digital filtering

**Trends:**
- **Memory:** All parameters for 24 hours
- **Display:** Graphic representation
- **Registration:** Graphic representation possible

**Respiration:**
- **Amplifier:** Fully isolated, defibrillation protected, > 5kV (integrated in ECG amplifier)
- **Measuring method:** Impedance method with 3, 5 or 10 lead patient cable
- **Sampling frequency:** 50 Hz
- **Measuring range:** Apnea, 0 – 200 respirations/min
- **Impedance range:** 0.1 – 3 ohm

**Temperature:**
- **Amplifier:** Fully isolated, defibrillation protected, > 5kV
- **Measuring method:** Rectal, skin, ear
- **Probe:** YSI 401
- **Measuring frequency:** 1 per second
- **Measuring range:** 15º to 45º C / 59º to 113º F
- **Resolution:** 0.1º C / 0.18º F

**Non-invasive blood pressure (NIBP):**
- **Cuffs:**
  - Disposable and reusable cuffs possible
  - Different cuff sizes possible
- **Measuring method:** Oscillometric
- **Measuring range:** 15 to 300 mm/Hg
- **Measurement:** Automatic and manual
- **Deflation rate:** 3 to 9 mm Hg/sec
- **Display:** Numeric: single measurement values and trends

**Masimo™ Pulse Oximetry:**
- **Amplifier:** Fully isolated, defibrillation protected, > 5kV
- **Display:**
  - Numeric display in %
  - Graphic display of measurement quality
  - Graphic/numerical representation of the peripheral pulse
- **Pulse rate range:** 20 to 240 bpm, ± 3 bpm
- **Measuring range:** 0 to 100 %
- **Resolution:** 1 %
- **Accuracy:**
  - Adult: 70 to 100 %, ± 2 digits
  - Neonatal: 70 to 100 %, ± 3 digits
- **Alarm supervision of all vital signs (except temp.):**
- **Limits:** Upper/lower alarm limits freely selectable

**Options:**
- Capnography etCO2
- Integrated additional battery
- Integrated thermal printer

Subject to technical alterations without prior notice.

Baar, 03/03 mk